

ENOTE 0062

Replacing a Bound FieldServer in LonMaker

Overview

This document describes how to update or replace a FieldServer existing in a Bound configuration on a LonWorks network without having to re-create the existing bindings. Typically, changes to the FieldServer's configuration file such as adding new LonWorks network variables result in the need to update or replace the FieldServer device in the LonMaker network configuration. It must be understood that major changes such as deleting network variables already bound in the network will result in those bindings to be deleted when the FieldServer device is updated in LonMaker.

Replacement procedure

- 1) Upload the fserver.xif file from the FieldServer using Ruinet. Save it as fserver_old.xif
- 2) Update the FieldServer's config.csv file with your changes and download the changed config.csv file to the FieldServer using Ruinet. Restart the FieldServer.
- 3) Wait until the FieldServer has started up by connecting with Ruinet then upload the newly created fserver.xif file from the FieldServer.
- 4) View fserver.xif and fserver_old.xif using a text viewer program like Windows Notepad. Each file should look like this:

File: fserver.xif generated by LonDriver Revision 1.19(d), XIF
Version 4.0
Copyright (c) 2000-2004 by FieldServer Technologies
All Rights Reserved. Run on Wed Sep 29 15:33:39 2004

80:00:95:47:1E:02:04:EE

Compare the model numbers of the Program IDs from each file. The model number is always the last of the 8 numbers seperated by semicolons. In the above excerpt from the XIF file, the model number is EE. The model numbers must differ for the replace to work. The reason is that every FieldServer LonWorks configuration has to have a unique Program ID. LonMaker already knows the Program ID of the original configuration and will prevent the replace procedure if the device to be replaced has a changed LonWorks configuration but still the same Program ID.

The FieldServer's first 7 numbers of the Program ID are fixed and only the last number (model number) is changed everytime the LonWorks configuration in the config.csv file is changed. The FieldServer calculates the model number using a checksum routine on the LonWorks map descriptor names and it may happen that the model number is exactly the same for two different configurations.



If the model numbers are not the same, proceed to the next step. If the model numbers are the same, slightly change the name of an existing or new LonWorks map descriptor in the updated config.csv file eg.

<u>Old LonWorks map descriptor</u> nvoAmp ,0s ,DA_001 ,0 ,NVUOEXC ,WRBC ,Lon_Srv_11 ,000 ,SNVT_amp

Changed LonWorks map descriptor

nvoAmp1 ,0s ,DA_001 ,0 ,NVUOEXC ,WRBC ,Lon_Srv_11 ,000 ,SNVT_amp

Download the changed config.csv to the FieldServer and restart it again. Upload the newly created fserver.xif and compare it again against the fserver_old.xif file. Repeat this step until the Program ID's model numbers are different, then proceed to the next step.

- 5) Save the fserver.xif file in the \ the %System Root%\LonWorks\Import folder of the LonMaker PC. (%System Root% is the drive letter, typically C: where LonMaker is installed.)
- 6) Open the LonMaker network containing the FieldServer.
- 7) Close any network variable Browsers and turn off Monitoring by right-clicking on the network sheet and then deselecting "Enable Monitoring":





8) Right-click on the FieldServer device and select Replace:





9) Select Load XIF and then click Browse and select the fserver.xif file you previously copied to %System Root%\Lonworks\Import. Enter a new unique template name and then click Next:

Replace Device Wizard		×
Specify Device Template		
Current Template:	Device 2	
Device Name(s):	Device 2	
-External Interface Definit	tion	
O Upload From Device		
C Load XIF File:	C:\LonVVorks\Import\f	server.xif Browse
	Template Name:	Device 2-a
C Existing Template	Name:	Device 2
	< Back	Next > Cancel Help



10) Make sure Load Application Image is NOT clicked! Downloading a new application will corrupt the FieldServer.

Replace Device	Wizard 🔰 🔰 🔁
Specify device ap	plication image name
Device Template:	Device 2-a
Device Name(s):	Device 2
🗖 Load Applicati	on Image
Image Name:	C:\LonWorks\Import\fserver.NXE Browse
XIF Name:	C:\Lon\Vorks\Import\fserver.xif Browse
	< Back Next > Cancel Help



11) Select Default State and Old Device Values, click Next:

Replace Device V	Vizard	×
Specify the initial st	ate of the device and the source of CP values	
Device Name(s):	Device 2	
State © Default	Source of Configuration Property Values	
C Offline	Old device values	
O Online	O Default values	
C Disable	New device values	
	< Back Next > Cancel	Help



12) Select Manual and leave the Neuron ID as specified then click Finish:

Device Identification Method Device Name(s): Device 2 Service Pin Manual Neuron ID: Device 2	Replace Device Wizard	×
Device Name(s): Device 2 © Service Pin © Manual Neuron ID: 0100828E4F00	Device Identification Method	
 Service Pin Manual Neuron ID: 0100828E4F00 	Device Name(s): Device 2	
Manual Neuron ID: D100828E4F00	O Service Pin	
	Manual Neuron ID: 1100828E4F00	
< Back Finish Cancel Help	< Back	Finish Cancel Help



13) If you made major changes you may get the following screen warning you of bindings that may be deleted. If you just added Network Variables without changing the existing configuration you should not get the warning screen. Click Yes to Continue or No if you want to opt out. . Note: This will only happen if you have made changes to Network Variables which are shown in Function Blocks or were previously bound in the network.

Echelon	LonMa	aker - Device	Upgrade	×
?	The ne templa remove Contine	ew template spe te. Some functio ed. ue?	cified for device 'Device 2' is not compatible with the old in blocks, connections, and/or NV/MT shapes will be	Yes No
FB Na Func B	me Block 1	NV/MT Na nvoAmp	Action Delete NV/MT shape and connections - NV/MT remove	ed from templ

- 14) If you added new Network Variables, drag the "Input/Output Network Variable" shape onto the FieldServer device and you should be presented with a list of new Network Variables. Select the Network Variable you want to add and click Ok to add it to the FieldServer's functional block.
- 15) This completes the replace procedure. You can now make new bindings if necessary.

Troubleshooting

- If the replacement procedure did not work, read through it again carefully to ensure that all steps were followed carefully.
- If the procedure did not work, then it may be that LonMaker did not delete the old .xfb and .xfo files for the FieldServer. Delete these files (for the FieldServer only), and retry the replacement procedure. These files are located in the same location as the xif you moved earlier in this procedure.

Revision History

Date	Resp	Rev	Comment
9/30/04	DR	0	Created
1/26/05	GFM	1	Added Customer comments